

What is claimed is:

1. A holographic memory system comprising:

a light source for generating a reference beam having
5 a wavelength; and

a photodetecting device for detecting a reconstructed signal beam corresponding to the reference beam, the photodetecting device selectively detecting light of a wavelength band including a wavelength of the reconstructed
10 signal beam.

2. The holographic memory system of claim 1, wherein the photodetecting device includes:

a band-pass filter for transmitting light of the wavelength band including the wavelength of the reconstructed signal beam while blocking light having a wavelength deviating from the wavelength band; and

a photodetecting unit for detecting the light transmitted through the band-pass filter.

20 3. The holographic memory system of claim 2, wherein the band-pass filter is a laser line band-pass filter.

4. The holographic memory system of claim 3, wherein the
25 laser line band-pass filter transmits light having a wavelength of about 532 nm.

5. A photodetecting device for use in a holographic memory system, the photodetecting device comprising:

a band-pass filter for transmitting light of a wavelength band while blocking light having a wavelength
5 deviating from the wavelength band; and

a photodetecting unit for detecting the light transmitted through the band-pass filter.

6. The photodetecting device of claim 5, wherein the

10 band-pass filter is a laser line band-pass filter.